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MATERIAL SAFETY DATA SHEET

RECEIVED

UNOCAL 76

APR 20 1993

1201 West 5th Street  
Los Angeles, California 90017

AGCW - SEATTLE

Product Name: UNOCAL UNOBA EP GREASE 2  
Product Code No: 05455

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Issue Date: 09/04/92  
Status: FINAL

(NEW GREEN)

Responsible Party:  
UNOCAL PETROLEUM PRODUCTS & CHEMICALS DIV.  
REFINING & MARKETING GROUP  
UNION OIL COMPANY OF CALIFORNIA  
1201 WEST 5TH STREET  
LOS ANGELES, CALIFORNIA 90017  
  
FOR FURTHER INFORMATION CONTACT:  
MSDS COORDINATOR 213-977-7589

Transportation Emergencies:  
CHEMTREC  
  
(800) 424-9300 Cont. U.S.  
from Alaska & Hawaii  
Health Emergencies:  
LOS ANGELES POISON  
CONTROL CENTER (24 hrs)  
(800) 356-3129

PRODUCT IDENTIFICATION

PRODUCT NAME: UNOCAL UNOBA EP GREASE 2  
GENERIC NAME: GREASE  
CHEMICAL FAMILY: PETROLEUM HYDROCARBON  
DOT PROPER SHIPPING NAME: NOT APPLICABLE  
ID NUMBER: NONE  
DOT HAZARD CLASSIFICATION: NOT REGULATED

PRECAUTIONARY WARNING

LIQUID OR VAPOR MAY IGNITE. KEEP AWAY FROM ALL SOURCES OF IGNITION. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, GRIND OR DRILL ON OR NEAR CONTAINER. "EMPTY" CONTAINER RETAINS RESIDUE (LIQUID AND/OR VAPOR) AND MAY EXPLODE IN HEAT OF A FIRE.

| SECTION I - COMPONENTS | PERCENT | EXPOSURE LIMIT | UNITS | AGENCY | TYPE |
|------------------------|---------|----------------|-------|--------|------|
|------------------------|---------|----------------|-------|--------|------|

HAZARDOUS COMPONENTS

|  |        |       |          |      |
|--|--------|-------|----------|------|
| OIL MIST, IF GENERATED<br>CAS #: 8012-95-1 | 5.000  | mg/m3 | ACGIH    | TWA  |
|  | 10.000 | mg/m3 | ACGIH    | STEL |
|  | 5.000  | mg/m3 | MSHA     | TWA  |
|  | 5.000  | mg/m3 | OSHA     | TWA  |
|  | 5.000  | mg/m3 | CAL OSHA | TWA  |

OTHER COMPONENTS

|   |  |
|---|--|
| SPENT LUBE OIL, CLAY TREATED<br>CAS #: 64742-50-3 | 37.000 - 40.000(SEE OIL MIST EXPOSURE LIMIT) |
| SOLVENT REFINED RESIDUUM<br>CAS #: 64742-01-4     | 32.000 - 35.000(SEE OIL MIST EXPOSURE LIMIT) |

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| SECTION I - COMPONENTS - | PERCENT | EXPOSURE LIMIT | UNITS | AGENCY | TYPE |
|--------------------------|---------|----------------|-------|--------|------|
|--------------------------|---------|----------------|-------|--------|------|

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| HYDROTREATED DISTILLATE, HEAVY NAPHTHENIC<br>CAS #: 64742-52-5 | 12.000 - 15.000(SEE OIL MIST EXPOSURE LIMIT) |  |  |  |  |
|--|--|--|--|--|--|

|                                    |                 |  |  |  |                 |
|------------------------------------|-----------------|--|--|--|-----------------|
| TRADE SECRET<br>CAS #: PROPRIETARY | 10.000 - 19.000 |  |  |  | NOT ESTABLISHED |
|------------------------------------|-----------------|--|--|--|-----------------|

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372:

| CAS NUMBER | WEIGHT % |
|------------|----------|
|------------|----------|

--NONE--

SECTION II - EMERGENCY AND FIRST AID PROCEDURES \*\*\*EMERGENCY\*\*\*  
Have physician call LOS ANGELES POISON CONTROL CENTER (24 hrs) (800) 356-3129

EYE CONTACT:

IF IRRITATION OR REDNESS DEVELOPS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES WITH CLEAN WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

SKIN CONTACT:

WIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED SHOES AND CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH MILD SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANSER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION (BREATHING):

SINCE THE VAPOR PRESSURE IS LOW, VAPOR INHALATION UNDER AMBIENT CONDITIONS IS UNLIKELY. IF OVERCOME BY VAPOR FROM HOT PRODUCT, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING):

IF SWALLOWED, SEEK MEDICAL ATTENTION. IF VICTIM IS DROWSY OR UNCONSCIOUS, PLACE ON THE LEFT SIDE WITH THE HEAD DOWN. DO NOT GIVE ANYTHING BY MOUTH. IF POSSIBLE, DO NOT LEAVE VICTIM UNATTENDED.

COMMENTS:

HIGH PRESSURE GREASE GUN INJURIES MAY PRODUCE SUBSTANTIAL NECROSIS OF UNDERLYING TISSUE DESPITE AN INNOCUOUS APPEARING EXTERNAL WOUND. OFTEN THESE INJURIES REQUIRE EXTENSIVE EMERGENCY SURGICAL DEBRIDEMENT AND ALL INJURIES SHOULD BE EVALUATED BY A SPECIALIST IN ORDER TO ASSESS THE EXTENT OF INJURY.

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

EYE CONTACT:

THIS MATERIAL MAY CAUSE MILD EYE IRRITATION. DIRECT CONTACT WITH THE LIQUID OR EXPOSURE TO VAPORS OR MISTS MAY CAUSE STINGING, TEARING AND REDNESS.

SKIN CONTACT:

THIS MATERIAL MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE REDNESS, BURNING, AND DRYING AND CRACKING OF THE SKIN. NO HARMFUL EFFECTS ARE EXPECTED FROM SKIN ABSORPTION OF THIS MATERIAL. PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

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**SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY****INHALATION (BREATHING):**

INHALATION OF THIS MATERIAL IS UNLIKELY.

**INGESTION (SWALLOWING):**

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

**COMMENTS:**

THIS MATERIAL HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC OR OSHA. HIGH PRESSURE GREASE GUN INJURY CAN CAUSE SERIOUS DELAYED SOFT TISSUE DAMAGE.

**SECTION IV - SPECIAL PROTECTION INFORMATION****VENTILATION:**

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURES MAY BE PRESENT, ELECTRICAL SYSTEMS SAFE FOR SUCH LOCATIONS MUST BE USED.

**RESPIRATORY PROTECTION:**

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR OR GAS MASK WITH APPROPRIATE CARTRIDGES AND CANNISTERS (NIOSH APPROVED, IF AVAILABLE) OR SUPPLIED AIR EQUIPMENT.

**PROTECTIVE GLOVES:**

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION.

**EYE PROTECTION:**

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

**OTHER PROTECTIVE EQUIPMENT:**

IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES AND SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

**SECTION V - REACTIVITY DATA****REACTIVITY:**

STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

**CONDITIONS AFFECTING REACTIVITY:**

EXTENDED EXPOSURE TO HIGH TEMPERATURES MAY CAUSE DECOMPOSITION.

**INCOMPATIBLE MATERIALS:**

AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

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**SECTION V - REACTIVITY-DATA****HAZARDOUS DECOMPOSITION PRODUCTS:**

COMBUSTION MAY YIELD MAJOR AMOUNTS OF OXIDES OF CARBON AND MINOR AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.

**HAZARDOUS POLYMERIZATION:**

WILL NOT OCCUR

**POLYMERIZATION CONDITIONS TO AVOID:**

NONE KNOWN

**SECTION VI - SPILL AND LEAK PROCEDURES**

\*\*\*HIGHWAY OR RAILWAY SPILLS\*\*\*  
Call CHEMTREC (800) 424-9300 Cont. U.S.  
(Collect) (202) 483-7616 from Alaska & Hawaii

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:**

MAY IGNITE. KEEP ALL SOURCES OF IGNITION AWAY FROM SPILL/RELEASE. STAY UPWIND AND AWAY FROM SPILL/RELEASE. ISOLATE HAZARD AREA AND LIMIT ENTRY TO AUTHORIZED PERSONNEL. STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED TREATMENT/DRAINAGE SYSTEMS AND NATURAL WATERWAYS. NOTIFY APPROPRIATE FEDERAL, STATE AND LOCAL AGENCIES. CLEANUP UNDER EXPERT SUPERVISION IS ADVISED. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY THE NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

**WASTE DISPOSAL METHOD:**

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

**SECTION VII - STORAGE AND SPECIAL PRECAUTIONS****HANDLING AND STORAGE PRECAUTIONS:**

USE AND STORE THIS MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. KEEP CONTAINER(S) CLOSED. STORE ONLY IN APPROVED CONTAINERS. KEEP AWAY FROM ANY INCOMPATIBLE MATERIALS (SEE SECTION V). PROTECT CONTAINER(S) AGAINST PHYSICAL DAMAGE. DO NOT ENTER CONFINED SPACES SUCH AS TANKS OR PITS WITHOUT FOLLOWING PROPER ENTRY PROCEDURES SUCH AS ASTM D-4276. THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED ANY ESTABLISHED EXPOSURE LIMITS (SEE SECTIONS I AND IV). WASH THOROUGHLY AFTER HANDLING. DO NOT WEAR CONTAMINATED CLOTHING OR SHOES. USE GOOD PERSONAL HYGIENE PRACTICE. "EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY SHIPPED TO THE SUPPLIER OR A DRUM RECONDITIONER. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. BEFORE WORKING ON OR IN TANKS WHICH CONTAIN OR HAVE CONTAINED THIS PRODUCT, REFER TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ANSI Z49.1, AND OTHER GOVERNMENTAL AND INDUSTRIAL REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER CONTEMPLATED OPERATIONS.

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| SECTION VIII - FIRE AND EXPLOSION HAZARD DATA  |  |  |   |
| NFPA<br>HAZARD<br>CLASS  | HEALTH HAZARD: 0<br>FLAMMABILITY: 1<br>REACTIVITY: 0<br>OTHER: | HAZARD RANKING<br>0 = LEAST<br>1 = SLIGHT<br>2 = MODERATE<br>3 = HIGH<br>4 = EXTREME | FLASH POINT<br>420-438 F (COC)<br>216-226 C |
| <u>EXTINGUISHING MEDIA:</u><br>DRY CHEMICAL, FOAM, WATER OR SAND IS RECOMMENDED.   |  |  |   |
| <u>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</u><br>THIS MATERIAL MAY BURN, BUT WILL NOT IGNITE READILY.   |  |  |   |
| <u>SPECIAL FIRE FIGHTING PROCEDURES:</u><br>WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME. |  |  |   |
| SECTION IX - PHYSICAL DATA   |  | ***UNLESS OTHERWISE NOTED, VALUES ARE AT<br>20 C/68 F AND 760 mm Hg/1 atm.           |   |
| <u>APPROX. BOILING POINT</u>   | (AIR = 1)<br><u>VAPOR DENSITY</u>                              | (N-BUTYL ACETATE = 1)<br><u>EVAPORATION RATE</u>                                     | <u>% VOLATILE</u>                           |
| >600 F / 316 C   | >1   | <1   | NEGLIGIBLE                                  |
| <u>% SOLUBILITY IN WATER</u><br>NEGLIGIBLE   |  |  |   |
| <u>APPROX. BULK DENSITY (LB/GAL)</u><br>7.2  |  |  |   |
| <u>APPEARANCE</u><br>GREEN BUTTERY GREASE  |  |  |   |
| <u>ODOR</u><br>CHARACTERISTIC PETROLEUM  |  |  |   |
| SECTION X - DOCUMENTARY INFORMATION  |  |  |   |
| ISSUE DATE: 09/04/92 PRODUCT CODE NO. 05455  |  |  |   |
| PREV. DATE: 06/21/90 PREV. PROD. CODE NO. NONE   |  |  |   |
| MSDS NO: NONE PREV. MSDS NO: NONE  |  |  |   |

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## SECTION X - DOCUMENTARY INFORMATION

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